

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 091955,737 A
Source: IEW16
Date Processed by STIC: 10-26-04

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 10/26/2004
 PATENT APPLICATION: US/09/955,737A TIME: 16:04:00

Input Set : A:\16163-015001.txt
 Output Set: N:\CRF4\10262004\I955737A.raw

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4 <110> APPLICANT: Chopra , Rajiv
5 Svenson, Kristine
6 Annis, Bethany
7 Akopian, Tatos N.
8 Bard, Jonathan A.
9 Stahl, Mark L.
10 Somers, William Stuart
13 <120> TITLE OF INVENTION: CRYSTAL STRUCTURE OF BACE AND USES
14 THEREOF
16 <130> FILE REFERENCE: 16163-015001
18 <140> CURRENT APPLICATION NUMBER: US 09/955,737A
19 <141> CURRENT FILING DATE: 2001-09-19
21 <150> PRIOR APPLICATION NUMBER: US 60/234,576
22 <151> PRIOR FILING DATE: 2000-09-22
24 <160> NUMBER OF SEQ ID NOS: 6
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0
28 <210> SEQ ID NO: 1
29 <211> LENGTH: 501
30 <212> TYPE: PRT
31 <213> ORGANISM: Homo sapiens
33 <400> SEQUENCE: 1
34 Met Ala Gln Ala Leu Pro Trp Leu Leu Leu Trp Met Gly Ala Gly Val
35 1 5 10 15
36 Leu Pro Ala His Gly Thr Gln His Gly Ile Arg Leu Pro Leu Arg Ser
37 20 25 30
38 Gly Leu Gly Gly Ala Pro Leu Gly Leu Arg Leu Pro Arg Glu Thr Asp
39 35 40 45
40 Glu Glu Pro Glu Glu Pro Gly Arg Arg Gly Ser Phe Val Glu Met Val
41 50 55 60
42 Asp Asn Leu Arg Gly Lys Ser Gly Gln Gly Tyr Tyr Val Glu Met Thr
43 65 70 75 80
44 Val Gly Ser Pro Pro Gln Thr Leu Asn Ile Leu Val Asp Thr Gly Ser
45 85 90 95
46 Ser Asn Phe Ala Val Gly Ala Ala Pro His Pro Phe Leu His Arg Tyr
47 100 105 110
48 Tyr Gln Arg Gln Leu Ser Ser Thr Tyr Arg Asp Leu Arg Lys Gly Val
49 115 120 125
50 Tyr Val Pro Tyr Thr Gln Gly Lys Trp Glu Gly Glu Leu Gly Thr Asp
51 130 135 140
52 Leu Val Ser Ile Pro His Gly Pro Asn Val Thr Val Arg Ala Asn Ile
53 145 150 155 160
54 Ala Ala Ile Thr Glu Ser Asp Lys Phe Phe Ile Asn Gly Ser Asn Trp
55 165 170 175

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56 Glu Gly Ile Leu Gly Leu Ala Tyr Ala Glu Ile Ala Arg Pro Asp Asp
 57 180 185 190
 58 Ser Leu Glu Pro Phe Phe Asp Ser Leu Val Lys Gln Thr His Val Pro
 59 195 200 205
 60 Asn Leu Phe Ser Leu Gln Leu Cys Gly Ala Gly Phe Pro Leu Asn Gln
 61 210 215 220
 62 Ser Glu Val Leu Ala Ser Val Gly Gly Ser Met Ile Ile Gly Gly Ile
 63 225 230 235 240
 64 Asp His Ser Leu Tyr Thr Gly Ser Leu Trp Tyr Thr Pro Ile Arg Arg
 65 245 250 255
 66 Glu Trp Tyr Tyr Glu Val Ile Ile Val Arg Val Glu Ile Asn Gly Gln
 67 260 265 270
 68 Asp Leu Lys Met Asp Cys Lys Glu Tyr Asn Tyr Asp Lys Ser Ile Val
 69 275 280 285
 70 Asp Ser Gly Thr Thr Asn Leu Arg Leu Pro Lys Lys Val Phe Glu Ala
 71 290 295 300
 72 Ala Val Lys Ser Ile Lys Ala Ala Ser Ser Thr Glu Lys Phe Pro Asp
 73 305 310 315 320
 74 Gly Phe Trp Leu Gly Glu Gln Leu Val Cys Trp Gln Ala Gly Thr Thr
 75 325 330 335
 76 Pro Trp Asn Ile Phe Pro Val Ile Ser Leu Tyr Leu Met Gly Glu Val
 77 340 345 350
 78 Thr Asn Gln Ser Phe Arg Ile Thr Ile Leu Pro Gln Gln Tyr Leu Arg
 79 355 360 365
 80 Pro Val Glu Asp Val Ala Thr Ser Gln Asp Asp Cys Tyr Lys Phe Ala
 81 370 375 380
 82 Ile Ser Gln Ser Ser Thr Gly Thr Val Met Gly Ala Val Ile Met Glu
 83 385 390 395 400
 84 Gly Phe Tyr Val Val Phe Asp Arg Ala Arg Lys Arg Ile Gly Phe Ala
 85 405 410 415
 86 Val Ser Ala Cys His Val His Asp Glu Phe Arg Thr Ala Ala Val Glu
 87 420 425 430
 88 Gly Pro Phe Val Thr Leu Asp Met Glu Asp Cys Gly Tyr Asn Ile Pro
 89 435 440 445
 90 Gln Thr Asp Glu Ser Thr Leu Met Thr Ile Ala Tyr Val Met Ala Ala
 91 450 455 460
 92 Ile Cys Ala Leu Phe Met Leu Pro Leu Cys Leu Met Val Cys Gln Trp
 93 465 470 475 480
 94 Arg Cys Leu Arg Cys Leu Arg Gln Gln His Asp Asp Phe Ala Asp Asp
 95 485 490 495
 96 Ile Ser Leu Leu Lys
 97 500
 99 <210> SEQ ID NO: 2
 100 <211> LENGTH: 695
 101 <212> TYPE: PRT
 102 <213> ORGANISM: Homo sapiens
 104 <400> SEQUENCE: 2
 105 Met Leu Pro Gly Leu Ala Leu Leu Leu Ala Ala Trp Thr Val Trp
 106 1 5 10 15

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107 Ala Leu Glu Val Pro Thr Asp Gly Asn Ala Gly Leu Leu Ala Glu Pro
 108 20 25 30
 109 Gln Ile Ala Met Phe Cys Gly Arg Leu Asn Met His Met Asn Val Gln
 110 35 40 45
 111 Asn Gly Lys Trp Asp Ser Asp Pro Ser Gly Thr Lys Thr Cys Ile Asp
 112 50 55 60
 113 Thr Lys Glu Gly Ile Leu Gln Tyr Cys Gln Glu Val Tyr Pro Glu Leu
 114 65 70 75 80
 115 Gln Ile Thr Asn Val Val Glu Ala Asn Gln Pro Val Thr Ile Gln Asn
 116 85 90 95
 117 Trp Cys Lys Arg Gly Arg Lys Gln Cys Lys Thr His Pro His Phe Val
 118 100 105 110
 119 Ile Pro Tyr Arg Cys Leu Val Gly Glu Phe Val Ser Asp Ala Leu Leu
 120 115 120 125
 121 Val Pro Asp Lys Cys Lys Phe Leu His Gln Glu Arg Met Asp Val Cys
 122 130 135 140
 123 Glu Thr His Leu His Trp His Thr Val Ala Lys Glu Thr Cys Ser Glu
 124 145 150 155 160
 125 Lys Ser Thr Asn Leu His Asp Tyr Gly Met Leu Leu Pro Cys Gly Ile
 126 165 170 175
 127 Asp Lys Phe Arg Gly Val Glu Phe Val Cys Cys Pro Leu Ala Glu Glu
 128 180 185 190
 129 Ser Asp Asn Val Asp Ser Ala Asp Ala Glu Glu Asp Asp Ser Asp Val
 130 195 200 205
 131 Trp Trp Gly Gly Ala Asp Thr Asp Tyr Ala Asp Gly Ser Glu Asp Lys
 132 210 215 220
 133 Val Val Glu Val Ala Glu Glu Glu Val Ala Glu Val Glu Glu Glu
 134 225 230 235 240
 135 Glu Ala Asp Asp Asp Glu Asp Asp Glu Asp Gly Asp Glu Val Glu Glu
 136 245 250 255
 137 Glu Ala Glu Glu Pro Tyr Glu Glu Ala Thr Glu Arg Thr Thr Ser Ile
 138 260 265 270
 139 Ala Thr Thr Thr Thr Thr Glu Ser Val Glu Glu Val Val Arg
 140 275 280 285
 141 Val Pro Thr Thr Ala Ala Ser Thr Pro Asp Ala Val Asp Lys Tyr Leu
 142 290 295 300
 143 Glu Thr Pro Gly Asp Glu Asn Glu His Ala His Phe Gln Lys Ala Lys
 144 305 310 315 320
 145 Glu Arg Leu Glu Ala Lys His Arg Glu Arg Met Ser Gln Val Met Arg
 146 325 330 335
 147 Glu Trp Glu Glu Ala Glu Arg Gln Ala Lys Asn Leu Pro Lys Ala Asp
 148 340 345 350
 149 Lys Lys Ala Val Ile Gln His Phe Gln Glu Lys Val Glu Ser Leu Glu
 150 355 360 365
 151 Gln Glu Ala Ala Asn Glu Arg Gln Gln Leu Val Glu Thr His Met Ala
 152 370 375 380
 153 Arg Val Glu Ala Met Leu Asn Asp Arg Arg Arg Leu Ala Leu Glu Asn
 154 385 390 395 400
 155 Tyr Ile Thr Ala Leu Gln Ala Val Pro Pro Arg Pro Arg His Val Phe

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156	405	410	415	
157	Asn Met Leu Lys Lys Tyr Val Arg Ala Glu Gln Lys Asp Arg Gln His			
158	420	425	430	
159	Thr Leu Lys His Phe Glu His Val Arg Met Val Asp Pro Lys Lys Ala			
160	435	440	445	
161	Ala Gln Ile Arg Ser Gln Val Met Thr His Leu Arg Val Ile Tyr Glu			
162	450	455	460	
163	Arg Met Asn Gln Ser Leu Ser Leu Leu Tyr Asn Val Pro Ala Val Ala			
164	465	470	475	480
165	Glu Glu Ile Gln Asp Glu Val Asp Glu Leu Leu Gln Lys Glu Gln Asn			
166	485	490	495	
167	Tyr Ser Asp Asp Val Leu Ala Asn Met Ile Ser Glu Pro Arg Ile Ser			
168	500	505	510	
169	Tyr Gly Asn Asp Ala Leu Met Pro Ser Leu Thr Glu Thr Lys Thr Thr			
170	515	520	525	
171	Val Glu Leu Leu Pro Val Asn Gly Glu Phe Ser Leu Asp Asp Leu Gln			
172	530	535	540	
173	Pro Trp His Ser Phe Gly Ala Asp Ser Val Pro Ala Asn Thr Glu Asn			
174	545	550	555	560
175	Glu Val Glu Pro Val Asp Ala Arg Pro Ala Ala Asp Arg Gly Leu Thr			
176	565	570	575	
177	Thr Arg Pro Gly Ser Gly Leu Thr Asn Ile Lys Thr Glu Glu Ile Ser			
178	580	585	590	
179	Glu Val Lys Met Asp Ala Glu Phe Arg His Asp Ser Gly Tyr Glu Val			
180	595	600	605	
181	His His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys			
182	610	615	620	
183	Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val			
184	625	630	635	640
185	Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys Gln Tyr Thr Ser Ile			
186	645	650	655	
187	His His Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg			
188	660	665	670	
189	His Leu Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr Lys			
190	675	680	685	
191	Phe Phe Glu Gln Met Gln Asn			
192	690	695		
194	<210> SEQ ID NO: 3			
195	<211> LENGTH: 9			
196	<212> TYPE: PRT			
197	<213> ORGANISM: Artificial Sequence			
199	<220> FEATURE:			
200	<223> OTHER INFORMATION: APP inhibitor peptide			
202	<220> FEATURE:			
203	<221> NAME/KEY: VARIANT			
204	<222> LOCATION: 5			
205	<223> OTHER INFORMATION: Xaa = Sta = Statine			
207	<400> SEQUENCE: 3			
W-->	208 Ser Glu Val Asn Xaa Val Ala Glu Phe			

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Input Set : A:\16163-015001.txt

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209 1 5
211 <210> SEQ ID NO: 4
212 <211> LENGTH: 29
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: Primer
219 <400> SEQUENCE: 4 29
220 gctctagaac ccagcacggc atccggctg
222 <210> SEQ ID NO: 5
223 <211> LENGTH: 42
224 <212> TYPE: DNA
225 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <223> OTHER INFORMATION: Primer
230 <400> SEQUENCE: 5 42
231 ccaaggatgc gcccgcaata ggctatggtc atgagggttg ac
233 <210> SEQ ID NO: 6
234 <211> LENGTH: 10
235 <212> TYPE: PRT
236 <213> ORGANISM: Artificial Sequence
238 <220> FEATURE:
239 <223> OTHER INFORMATION: Synthetically generated peptide
241 <400> SEQUENCE: 6
242 Ser Glu Val Asn Leu Asp Ala Glu Phe Arg
243 1 5 10

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/26/2004
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; Xaa Pos. 5

VERIFICATION SUMMARY

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TIME: 16:04:01

Input Set : A:\16163-015001.txt
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L:208 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0